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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,459	05/24/2006	Anne-Marie Caminade	1004900-000277	5519
21839	7590	05/09/2008	EXAMINER	
BUCHANAN, INGERSOLL & ROONEY PC			DOLLINGER, MICHAEL M.	
POST OFFICE BOX 1404			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22313-1404			4171	
NOTIFICATION DATE		DELIVERY MODE		
05/09/2008		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/580,459	<b>Applicant(s)</b> CAMINADE ET AL.
	<b>Examiner</b> MICHAEL DOLLINGER	<b>Art Unit</b> 4171

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 54-106 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_ is/are allowed.
- 6) Claim(s) \_\_\_\_ is/are rejected.
- 7) Claim(s) \_\_\_\_ is/are objected to.
- 8) Claim(s) 54-106 are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement (PTO/SB/08) \_\_\_\_\_  
 Paper No(s)/Mail Date 05/24/2006
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_

**DETAILED ACTION**

***Election/Restrictions***

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 54-88, drawn to a dendritic polymer having phosphonic terminal groups.

Group II, claim(s) 89-91 and 96-99, drawn to a method of preparing a dendritic polymer having phosphonic terminal groups by reaction of a chlorine-terminated dendrimer with a phosphonic compound.

Group III, claim(s) 89, 92, 93 and 96-98, drawn to a method of preparing a dendritic polymer having phosphonic terminal groups by reaction of an amine-terminated dendrimer with an aldehyde and a phosphonic compound.

Group IV, claim(s) 89, 94, 95-99, drawn to a method of preparing a dendritic polymer having phosphonic terminal groups through reaction of an aldehyde-terminated dendrimer with monomethylhydrazine and a phosphonic compound.

Group V, claim(s) 100, drawn to a phosphonic compound.

Group VI, claim(s) 101 and 102, drawn to a method of preparing a phosphonic compound.

Group VII, claim(s) 103-106, drawn to a method of use for a phosphonic terminated dendritic polymer.

2. The inventions listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

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3. Groups I-IV and VII do not share a common technical feature with Groups V and VI. The common technical feature of Groups I-IV and VII is the dendritic polymer with phosphonic terminal groups which is not present in Groups V and VI. The common technical feature of Groups V and VI is the composition of formula (VIII) which is not present in Groups I-IV and VII.

4. Groups I-IV and VII share the share the common technical feature of a dendritic polymer with phosphonic terminal groups. This element cannot be a special technical feature under PCT Rule 13.2 because the element is shown in the prior art. Matthews et al. (US 6,464,971 B1) teach dendritic polymers having phosphonic terminals (column 3 lines 42-44; column 5 lines 5, 25; column 6 line 38).

5. Groups V and VI share the common technical feature of the composition of the compound of formula (VII). This element cannot be a special technical feature under PCT Rule 13.2 because the element is shown in the prior art. Kagaku (JP 05 178 710) teaches hydroxyl-trichloroethyl-O,O-dimethylphosphonate (abstract) which anticipates formula (VIII).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL DOLLINGER whose telephone number is (571)270-5464. The examiner can normally be reached on Monday - Thursday 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Tarazano can be reached on 571-272-1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. Lawrence Tarazano/  
Supervisory Patent Examiner, Art Unit 4171

MICHAEL DOLLINGER  
Examiner  
Art Unit 4171

/MMD/